

STIC Search Report

STIC Database Tracking Number: 146228

TO: Tarifur Chowdhury Location: JEF- 4A49

Art Unit : 2871

Tuesday, March 01, 2005

Case Serial Number: 10/771263

From: Darcy Bates Location: EIC 2800

JEF-4B68

Phone: 571-272-2540

darcy.bates@uspto.gov

Search Notes

Re: 10/771,263 US 6,433,851

Attached are search results.

No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.

If more searching or explanation is needed, please let me know.

Thanks, Darcy Bates



1

PALM INTRANET

Day: Tuesday Date: 3/1/2005 Time: 10:01:05

Application Number Information

Application Number: 10/771263 Assignments

Filing or 371(c) Date: 02/04/2004

Effective Date: 02/04/2004

Application Received: 02/04/2004

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Confirmation Number: 1391

Attorney Docket Number: 829-620

Examiner Number: 74504 / CHOWDHURY, TARI **IFW IMAGE**

Group Art Unit: 2871

Class/Subclass: 349/042.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO Status Date: 12/10/2004

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION

Oral Hearing: NO Title of Invention: TRANMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING A TRANSPARENT COLORLESS ORGANIC

INTERLAYER INSULATING FILM BETWEEN PIXEL ELECTRODES AND SWITCHING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
Appln Info	Contents Petition Info	Atty/Agent Info Conti	tinuity Data Foreign D	Pata Inventors Addre	sss Fees Post Info	Pre Grant Pub
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	Attorney Docket	# [Search			
	Bar Code #	Search				

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PALM INTRANET
Continuity Information for 10/771263

Day: Tuesday Date: 3/1/2005 Time: 10:01:11

Parent Data

10771263

is a reissue of <u>09757477</u>

is a division of <u>09592857</u>

is a division of <u>09110134</u>

Which is a continuation of <u>08695632</u>

Child Data

A	ntents Petition Info	Atty/Agent Info	Continuity Data	Foreign Date	Inventors	Address	Fees	Post Info	Pre Grant Pub
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Bar Code # [

PALM INTRANET

Day: Tuesday Date: 3/1/2005 Time: 10:01:17

Application Number Information

Application Number: 09/757477 Assignments

Filing or 371(c) Date: 01/11/2001 Effective Date: 01/11/2001 Application Received: 01/11/2001

Pat. Num./Pub. Num: 6433851/20010002857

Issue Date: 08/13/2002

Date of Abandonment: 00/00/0000
Attorney Docket Number: 829-572
Status: 150 /PATENTED CASE

Examiner Number: 74504 / CHOWDHURY, TARI

Group Art Unit: 2871 Class/Subclass: 349/042.000

Lost Case: NO

Interference Number: Unmatched Petition: NO <u>L&R Code:</u> Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 07/25/2002

Confirmation Number: 8776 Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING A TRANPARENT COLOR LESS ORGANIC

INTERLAYER INSULATING FILM BETWEEN PIXEL ELECTRODES AND SWITCHING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09757477	28M1	02/02/2005	28E1	No Charge to Name	NGO,CHAU	JEF/00/C 05
Appln Info	Contents Petition Info	Atty/Agentiln/o	Continuity Data	Foreign Data Inventors Ad	dross Fosti	nfo Pre-Grant/Pub
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Back to $\begin{cal}PALM\end{cal}\end{cal}$ ASSIGNMENT | OASIS | Home page

Day: Tuesday Date: 3/1/2005 Time: 10:01:23

PALM INTRANET Continuity Information for 09/757477

Parent Data

09757477 is a division of <u>09592857</u>

is a division of <u>09110134</u> Which is a continuation of <u>08695632</u>

Child Data

<u>10771263</u> is a reissue of <u>09757477</u>

10915/1/ is a div	ision of 10//1263								
Applii linfo	ntents Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Address	Fees	Post Info.	Pre(Grant)Pub
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	Attorney Docker	t#[Search	ī					
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PALM INTRANET

Day : Tuesday Date: 3/1/2005 Time: 10:01:29

Application Number Information

Application Number: 09/592857 Order This File Assignments Examiner Number: 74504 / CHOWDHURY, TARI

Filing or 371(c) Date: 06/12/2000

Effective Date: 06/12/2000

Application Received: 06/12/2000

Patent Number: 6195138

Issue Date: 02/27/2001

Date of Abandonment: 00/00/0000

Attorney Docket Number: 829-553

Status: 150 /PATENTED CASE

Group Art Unit: 2871

Class/Subclass: 349/042.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 02/09/2001

Oral Hearing: NO Confirmation Number: 4622

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING AN ORGANIC INTERLAYER ELEMENTS FILM

BETWEEN PIXEL ELECTRODES AND SWITCHING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09592857	9200	01/22/2004	No Charge to Location	No Charge to Name	ANYAMAH	
Appln Info	Contents Petition In	fo Atty/Agent Info	Continuity Data Foreign Data	inventors. Address	Fees Post info P	re Grant Pub
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	PCT/	Search	or PG PUBS#	Search		
	Attorney Doo	eket#	Search			
	Bar Code # [S	earch?			

To go back use Back button on your browser toolbar.

Day: Tuesday Date: 3/1/2005 PALM INTRANET Time: 10:01:34 **Continuity Information for 09/592857 Parent Data** 09592857 is a division of <u>08695632</u> Child Data 09757477 is a division of 09592857 10771263 is a reissue of 09757477 10915717 is a division of 10771263 Appininfo Contents Petition info Atty/Agent info Continuity Data Foreign Data Inventors. Address Fees Post Info Pre Grant Pub Search Another: Application# or Patent# Search Search or PG PUBS# PCT / Search

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Attorney Docket #

Bar Code # Search

PALM INTRANET

Day: Tuesday Date: 3/1/2005 Time: 10:01:40

Application Number Information

Application Number: 08/695632 Order This File Assignments Examiner Number: 74504 / CHOWDHURY, TARI

Filing or 371(c) Date: 08/12/1996 Group Art Unit: 2871

Effective Date: 08/12/1996 Class/Subclass: 349/038.000

Application Received: 08/12/1996

Patent Number: 6052162

Interference Number: NO

Unmatched Petition: NO

Date of Abandonment: 00/00/0000 L&R Code: Secrecy Code:1
Attorney Docket Number: 829-327 Third Level Review: NO

Attorney Docket Number: 829-327 Third Level Review: NO Secrecy Order: NO
Status: 150 /PATENTED CASE Status Date: 04/05/2000

Confirmation Number: 7513 Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY DEVICE WITH CONNECTING ELECTRODE AND PIXEL ELECTRODE CONNECTED VIA CONTACT HOLE THROUGH INER- LAYER INSULATING FILM AND METHOD FOR FABRICATING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08695632	9200	01/22/2004	No Charge to Location	No Charge to Location No Charge to Name		
Appln Info	Contents Petition	linfo Ally/Agenti	into Gontinutty Data Goref	n Data Inventors Addin	sss Fees Postinio Pr	e Grant(Pub)
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	PCT/	/ Search	or PG PUBS#	Search		
	Attorney D	ocket#	Search			
	Bar Code #	PALISMA SINA DINA LUMBER PER DESIGNA	Search :			

To go back use Back button on your browser toolbar.

Day: Tuesday Date: 3/1/2005 PALM INTRANET Time: 10:01:45 **Continuity Information for 08/695632 Parent Data** No Parent Data **Child Data** $\underline{09110134}$ is a continuation of $\underline{08695632}$ 09110151 is a continuation of 08695632 09592857 is a division of 08695632 09757477 is a division of 09592857 <u>10771263</u> is a reissue of <u>09757477</u> 10915717 is a division of 10771263 Appln Info | Contents, | Petition Info | Atty/Agent Info | Continuity Data | Foreign Data | Inventors | Address | Fees | Post Info | Pre Grant Pub Search Another: Application# or Patent# [or PG PUBS # [PCT / Search Attorney Docket # Search

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Bar Code #

Day: Tuesday Date: 3/1/2005 Time: 10:01:51

PALM INTRANET

Application Number Information

Application Number: 09/110134 Order This File Assignments Examiner Number: 74504 / CHOWDHURY, TARI

Search

Filing or 371(c) Date: 07/06/1998

Group Art Unit: 2871 Effective Date: 07/06/1998 Class/Subclass: 349/038.000

Application Received: 07/06/1998

Patent Number: 6097452 Issue Date: 08/01/2000

Date of Abandonment: 00/00/0000 Attorney Docket Number: 829-456

Status: 150 /PATENTED CASE Confirmation Number: 4328

Lost Case: NO

Interference Number: Unmatched Petition: NO

L&R Code: Secrecy Code:1 Third Level Review: NO

Secrecy Order: NO

Status Date: 07/13/2000

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING AN ORGANIC INTERLAYER ELEMENTS FILM

Oral Hearing: NO

BETWEEN PIXEL ELECTRODES AND SWITCHING

Bar Code	PALM Location	ALM Location Location Date Charge to Loc		Charge to Name	Employee Name	Location
09110134	9200	01/22/2004	No Charge to Location	No Charge to Name	KASAH,EMMANUEL	
Appln Info	Contents Petition	Info Atty/Agent	info Continuity Data Foreig	n Data Inventors Addre	ess Post Info Pre	Grant Pub
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Bar Code #

Continuity Information for 09/110134

Day : Tuesday Date: 3/1/2005 Time: 10:01:56

Parent Data

09110134

is a continuation of <u>08695632</u>

Child Data

09757477 is a division of 09592857 10771263 is a reissue of 09757477 10915717 is a division of 10771263

Applining Contents Patition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Po	st Info Pre Grant Pub
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IFW IMAGE

Day: Tuesday Date: 3/1/2005 Time: 10:02:02

PALM INTRANET

Application Number Information

Application Number: 10/915717 Assignments

Filing or 371(c) Date: 08/11/2004

Effective Date: 08/11/2004

Application Received: 08/11/2004

Patent Number: Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000 Attorney Docket Number: 829-626

Status: 19 / APPLICATION UNDERGOING PREEXAM PROCESSING Confirmation Number: 7473

Examiner Number: 00000 /

Group Art Unit: 2871

Class/Subclass: 349/.

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO Status Date: 08/16/2004

Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY HAVING A TRANSPARENT COLORLESS ORGANIC

INTERLAYER INSULATING FILM BETWEEN PIXEL ELECTRODES AND SWITCHING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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PALM INTRANET
Continuity Information for 10/915717

Day: Tuesday Date: 3/1/2005 Time: 10:02:07

Parent Data

10915717
is a division of 10771263
Which is a reissue of 09757477
is a division of 09592857
is a division of 09110134
Which is a continuation of 08695632

Child Data No Child Data

Appin Info	Contents	Relition Info	Atty/Agent/Info	Continuity	y Data	Foreign Data	Inventors	Addres
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PALM INTRANET

Day: Tuesday Date: 3/1/2005 Time: 10:02:17

Application Number Information

Application Number: 09/110151 Order This File Assignments Examiner Number: 74504 / CHOWDHURY, TARI

Filing or 371(c) Date: 07/06/1998

Effective Date: 07/06/1998

Application Received: 07/06/1998

Patent Number: <u>5953084</u>

Issue Date: 09/14/1999

Date of Abandonment: 00/00/0000 Attorney Docket Number: 829-457

Status: 150 /PATENTED CASE

d: 07/06/1998 3084

Unmatched Petition: NO
L&R Code: Secrecy Code:1

Group Art Unit: 2871

Interference Number:

Lost Case: NO

Class/Subclass: 349/038.000

Third Level Review: NO

Secrecy Order: NO

Status Date: 09/03/1999

Confirmation Number: 4350 Oral Hearing: NO

Title of Invention: TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY DEVICE AND METHOD FOR FABRICATION THE SAME

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location		
09110151	9200	10/20/2003	No Charge to Location	No Charge to Name	MASSILLON, NICHOLAS			
Applin Info Contents Petition Info Atty/Agent Info Continuity Data: Foreign Data Inventors Address Fees Post Info Pre Grant Pub								
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	PCT / J	/ Search	or PG PUBS # [Search				
	Attorney I	Docket #	Search					
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Continuity Information for 09/110151

Day : Tuesday Date: 3/1/2005 Time: 10:02:22

Parent Data

09110151

is a continuation of <u>08695632</u>

Child Data

No Child Data

Appln Info Contents Pelition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pre Grant Pub
Search Another: Application# Search or Patent# Search
PCT / Search or PG PUBS # Search
Attorney Docket # Search
Bar Code # Search

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Litigation involving patent 6,433,851

Click on the docket number to view the docket. Click on the above patent number to view the patent.

Docket Case Heading Date Filed Date Retryd

Litigation involving patent 5,953,084

Click on the docket number to view the docket. Click on the above patent number to view the patent.

Docket Case Heading Date Filed Date Retrvd

Litigation involving patent 6,097,452

Click on the docket number to view the docket. Click on the above patent number to view the patent.

Docket Case Heading Date Filed Date Retryd

Litigation involving patent 6,052,162

Click on the docket number to view the docket. Click on the above patent number to view the patent.

Docket Case Heading Date Filed Date Retryd

Litigation involving patent 6,195,138

Click on the docket number to view the docket. Click on the above patent number to view the patent.

Docket Case Heading Date Filed Date Retryd

Litigation involving patent 20010002857

Click on the docket number to view the docket. Click on the above patent number to view the patent.

Docket Case Heading Date Filed Date Retryd

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents

Terms: patno=6433851 (Edit Search)

757477 (09) 6433851 August 13, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6433851

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Link to Claims Section

August 13, 2002

Transmission type liquid crystal display having a transparent colorless organic interlayer insulating film between pixel electrodes and switching

REISSUE: February 4, 2004 - Reissue Application filed Ex. Gp.: 2871; Re. S.N. 10/771,263 (O.G. September 28, 2004)

INVENTOR: Shimada, Takayuki - Yamatokoriyama, Japan (JP); Kajitani, Masaru - Osaka, Japan (JP); Okamoto, Masaya - Soraku-gun, Japan (JP); Kondo, Naofumi - Ikoma, Japan (JP); Katayama, Mikio - Ikoma, Japan (JP); Sakuhana, Yoshikazu - Yamatokoriyama, Japan (JP); Yamamoto, Akihiro - Tenri, Japan (JP); Nakata, Yukinobu - Tenri, Japan (JP); Nishiki, Hirohiko - Tenri, Japan (JP)

CERT-CORRECTION: December 17, 2002 - a Certificate of Correction was issued for this patent (O.G. January 7, 2003)

APPL-NO: 757477 (09)

FILED-DATE: January 11, 2001

GRANTED-DATE: August 13, 2002

PRIORITY: August 11, 1995 - 7206367, Japan (JP); September 29, 1995 - 7254043, Japan

(JP)

ASSIGNEE-AT-ISSUE: Sharp Kabushiki Kaisha, Osaka, Japan (JP), 03

LEGAL-REP: Nixon & Vanderhye P.C.

PUB-TYPE: August 13, 2002 - Utility Patent having no previously published pre-grant publication (B1)

PUB-COUNTRY: United States (US)

REL-DATA:

Continuation of Ser. No. 08/695632, August 12, 1996, GRANTED PATENT 6052162, Utility Patent having no previously published pre-grant publication (A)

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<u>_egal</u> > <u>Area of Law - By Topic</u> > <u>Patent Law</u> > <u>Pate</u> * Enter Search Terms	<u>ents</u> > <u>U.S. Patents</u> > Utili	ty Patents <u>u</u> ?} [®] Search		
● Terms and Connectors ○ Natural Language patno=6433851	Suggest Terms for My Search	Use connectors to between search to connector for des connector to add		
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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command: us6433851/pn

** SS 7: Results 1

Search statement 8

Query/Command : prt fu legalall max

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PLUSPAT - @QUESTEL-ORBIT - image
1/1
         US2001002857 A1 20010607 [US20010002857]
 PN -
  PN2 -
         US6433851 B2 20020813 [US6433851]
         (A1) Transmission type liquid crystal display having an organic
 TI -
         interlayer elements film between pixel electrodes and switching
  PA -
         (B2) SHARP KK (JP)
  PA0 -
         Sharp Kabushiki Kaisha, Osaka [JP]
  PA2 -
         (B2) SHARP KK (JP)
          (A1) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO
          (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI
         HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP);
         YAMAMOTO AKIHIRO (JP)
         US75747701 20010111 [2001US-0757477]
 AP --
         Division of: US6195138
  FD
         Division of: US6097452
         Continuation of: US6052162
  PR -
         US75747701 20010111 [2001US-0757477]
         JP20636795 19950811 [1995JP-0206367]
         JP25404395 19950929 [1995JP-0254043]
         US59285700 20000612 [2000US-0592857]
         US11013498 19980706 [1998US-0110134]
         US69563296
                     19960812
                               [1996US-0695632]
  IC
         (A1) G02F-001/1343 G02F-001/136
  EC
         G02F-001/1362C
         G02F-001/1362H
  TCO -
         S02F-001/1333I
         ORIGINAL (O): 349138000; CROSS-REFERENCE (X): 349042000
  PCL -
         Corresponding document
 DT -
         US3602782; US4688896; US4759610; US4857907; US4923948; US5003356;
  CT
         US5032883; US5166085; US5182661; US5246782; US5314783; US5335102;
          US5378585; US5463481; US5483082; US5500750; US5517342; US5526014;
          US5585951; US5589314; US5594571; US5641974; US5658697; US5675159;
          US5679596; US5682211; US5688366; US5688410; US5695906; US5805250;
          US5822027; US5831708; US5859683; US5870157; US5877830; US5946065;
          US6052162; US6188458; US6204907; EP0117957; EP0611812; EP0632229;
          JP58-184929; JP61-156025; JP62-135810; JP1-35351; JP2-190826;
          JP3-2826; JP4-307521; JP4-74714; JP05-210113; JP06-208137;
          JP6-230422; JP7-36043; JP7-122719
          Patent Abstracts of Japan, vol. 016, No. 218, May 21, 1992 &
          JP-A-04 042214, Feb. 12, 1992.
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"Application of a Wide Viewing Angle Technique Essential for a

Large-Area Display to Mass Production Panel of TFT Starts", Flat-Panel Display '94, p. 166, Dec. 10, 1993.

"Mass Production of CMP is Full-Fledged to be Applied to ASIC and DRAM", Nikkei Microdevices, pp. 50-57, 1994.

"Backlight", Flat-Panel Display '94, p. 217, Dec. 10, 1993.

Fujita et al, "Colorless Polyimide", NITTO GIHO, Vo. 29, No. 1, pp. 20-28, 1991.

Sakamoto et al "27.3: A High-Aperture-Ratio 3-in.-Diagonal VGA a-Si Light Valve with Pixel/Data and Pixel/Gates Lines Overlapping", SID 96 DIGEST, pp. 681-684, 1996.

Kim et al "4:3: High-Aperture and Fault-Tolerant Pixel Structures for TFT-LCDs", SID 95 DIGEST, pp. 15-18, 1995.

Patent Abstracts of Japan, vol. 017, No. 428 (P-1588), Aug. 9, 1993 & JP-A-05 088199 (Sanyo Electric Co. Ltd.), Apr. 9, 1993.

Patent Abstracts of Japan, vol. 018, No. 532 (P-1810), Oct. 7, 1994 & JP-A-06 186580 (Seiko Epson Corp.), Jul. 8, 1994.

STG -(A1) Utility Patent Application published on or after January 2, STG2-(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001 The transmission type liquid crystal display device of this invention includes: gate lines; source lines; and switching elements each arranged near a crossing of each gate line and each source line, a gate electrode of each switching element being connected to the gate line, a source electrode of the switching element being connected to the source line, and a drain electrode of the switching element being connected to a pixel electrode for applying a voltage to a liquid crystal layer, wherein an interlayer insulating film formed of an, organic film with high transparency is provided above the switching element, the gate line, and the source line, and wherein the pixel electrode formed of a transparent conductive film is provided on the interlayer insulating film.

UP - 2001-24

PN - US2001002857 A1 20010607 [US20010002857]

US6433851 B2 20020813 [US6433851]

AP - US75747701 20010111 [2001US-0757477]

ACT - 20021217 US/CC-A

CERTIFICATE OF CORRECTION

20040928 US/RF-A REISSUE APPLICATION FILED EFFECTIVE DATE: 20040204

UP - 2004-41

1 / 1 CRXX - @CLAIMS/RRX

AN - 3733483

PN - 6,433,851 A 20020813 [US6433851]

PA - Sharp K K JP
PT - E (Electrical)

ACT - 20040204 REISSUE REQUESTED ISSUE DATE OF O.G.: 20040928

REISSUE REQUEST NUMBER: 10/771263 EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2871

Reissue Patent Number:

UP - 2003-02 UACT- 2004-09-28

Search statement 8

Query/Command : fam us6433851/pn

1 Patent Groups
** SS 8: Results 18

Search statement 9

Query/Command : famstate nonstop

1 / 18 PLUSPAT - @QUESTEL-ORBIT

PN - CN1172962 A 19980211 [CN1172962]

STG - (A) Unexamined application

TI - (A) Transmission type liquid crystal display device and method for fabricating the same

PA - (A) SHARP KK (JP)

IN - (A) MASARU KAJITANI (JP); MASAYA OKAMOTO (JP); NAOYUKI SHIMADA (JP)

IC - (A) G02F-001/136 G09F-009/35

PN2 - CN1101555 C 20030212 [CN1101555C]

STG2- (C) Granted patent
TI2 - (C) Transmission to

TI2 - (C) Transmission type liquid crystal display device and method for manufacturing the same

PA2 - (C) SHARP KK (JP)

IN2 - (C) MASARU KAJITANI (JP); MASAYA OKAMOTO (JP); NAOGUKI SHIMADA (JP)

IC2 - (C) G02F-001/1368 G09F-009/35

AP - CN96111648 19960812 [1996CN-0111648] **PR** - JP20636795 19950811 [1995JP-0206367] JP25404395 19950929 [1995JP-0254043]

2 / 18 PLUSPAT - @QUESTEL-ORBIT

PN - DE69625969 D1 20030306 [DE69625969]

STG - (D1) Granted EP number in bulletin

OTI - (D1) Transmissive Flüssigkristall-Anzeigevorrichtung und

Herstellungsverfahren

PA - (D1) SHARP KK (JP)

IN - (D1) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU
(JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO
MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP);
SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)

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(D1) G02F-001/136
IC -
PN2 - DE69625969 T2 20031002 [DE69625969]
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JP25404395 19950929 [1995JP-0254043]
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PR -
UP -
        2003-10
1 / 1
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AP - DE69625969 19960812 [1996DE-6025969]
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UP -
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3 / 18
PN - EP0762184 A1 19970312 [EP-762184]
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        (A1) Transmission type liquid crystal display device and method
        for fabricating the same
        (A1) Transmissive Flüssigkristall-Anzeigevorrichtung und
OTT -
Herstellungsverfahren
        (A1) Dispositif d'affichage à cristal liquide fonctionnant par
        transmission et procédé de fabrication
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IN - ' (A1) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU
        (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO
        MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP);
        SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)
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        for fabricating the same
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        (B1) Transmissive Flüssigkristall-Anzeigevorrichtung und
Herstellungsverfahren
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AP -
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JP25404395 19950929 [1995JP-0254043]
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ICO -
        S02F-001/1362H
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        19971008 EP/17P-A [+]
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        19990203 EP/17Q-A [+]
        FIRST EXAMINATION REPORT
        EFFECTIVE DATE: 19981218
        20030129 EP/AK-A [+]
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        FR: TRANSLATION FILED
        20040121 EP/26N-A [+]
        NO OPPOSITION FILED
        EFFECTIVE DATE: 20031030
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4 / 18 PLUSPAT - @QUESTEL-ORBIT - image
PN - EP1321797 A2 20030625 [EP1321797]
       (A2) Pub. Of applic. Without search report
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OTI -
Herstellungsverfahren
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PA -
        (A2) SHARP KK (JP)
        SHARP KABUSHIKI KAISHA; 22-22, Nagaike-cho, Abeno-ku; Osaka 545
PA0 -
        (A2) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU
IN -
        (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO
        MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP);
        SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)
      (A2) G02F-001/1362
PN2 - EP1321797 A3 20040721 [EP1321797]
       (A3) Publi. Of search report
TI2 - (A3) Transmission type liquid crystal display device and method
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(A3) Transmissive Flüssigkristall-Anzeigevorrichtung und

for fabricating the same

OTT2-

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Herstellungsverfahren
        (A3) Dispositif d'affichage à cristal liquide fonctionnant par
        transmission et procédé de fabrication
PA2 -
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IN2 -
        (A3) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU
        (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO
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        EP02017257 19960812 [2002EP-0017257]
EP96305889 19960812 [1996EP-0305889]
JP20636795 19950811 [1995JP-0206367]
JP25404395 19950929 [1995JP-0254043]
AΡ
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        S02F-001/1333I
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        DE FR GB NL
DT -
        Corresponding document
UP -
        2003-26
1 / 1
        LEGALI - ©EPO
        EP1321797 A2 20030625 [EP1321797]
PN -
AP -
        EP02017257 19960812 [2002EP-0017257]
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        20030625 EP/AK-A [+]
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        DE FR GB NL
        20040721 EP/AK-A [+]
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UP
        2004-30
5 / 18
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        JP2001290172 A 20011019 [JP2001290172]
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        (A) Doc. Laid open to publ. Inspec.
TI -
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PA -
        (A) SHARP KK
        (A) SHARP CORP
PAO -
        (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA
IN
        MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI
        HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO
        (A) G02F-001/1343 G02F-001/1368 G09F-009/30
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        JP2001044409 20010221 [2001JP-0044409]
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PR
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        JP25404395 19950929 [1995JP-0254043]
        2001-48
UP
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6 / 18
PN -
        JP2001296558 A 20011026 [JP2001296558]
STG -
        (A) Doc. Laid open to publ. Inspec.
TI -
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PA -
         (A) SHARP KK
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PA0 -(A) SHARP CORP (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO (A) G02F-001/1368 G09F-009/30 H01L-029/786 JP3541014 B2 20040707 [JP3541014] PN2 -STG2-(B2) Grant. Pat. With A from 2500000 on IC2 -(B2) G02F-001/1368 G09F-009/30 H01L-029/786 JP2001044410 20010221 [2001JP-0044410] JP2001044410 20010221 [2001JP-0044410] AP -JP20636795 19950811 [1995JP-0206367] JP25404395 19950929 [1995JP-0254043] UP 2001-48 7 / 18 PLUSPAT - @QUESTEL-ORBIT - image JP2001296559 A 20011026 [JP2001296559] STG -(A) Doc. Laid open to publ. Inspec. (A) LIQUID CRYSTAL DISPLAY DEVICE, AND ACTIVE MATRIX SUBSTRATE TI -PA -(A) SHARP KK (A) SHARP CORP PA0 -(A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA IN -MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO IC (A) G02F-001/1368 H01L-021/312 H01L-029/786 JP2001047716 20010223 [2001JP-0047716] JP2001047716 20010223 [2001JP-0047716] AP PR JP20636795 19950811 [1995JP-0206367] JP25404395 19950929 [1995JP-0254043] TIP -2001-48 8 / 18 PLUSPAT - ©QUESTEL-ORBIT - image JP2002189232 A 20020705 [JP2002189232] PN -STG -(A) Doc. Laid open to publ. Inspec. (A) LIQUID CRYSTAL DISPLAY DEVICE, AND ACTIVE MATRIX SUBSTRATE TI -PA -(A) SHARP KK (A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA IN -MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO (A) G02F-001/1333 G02F-001/1368 G09F-009/30 G09F-009/35 IC -H01L-021/28 H01L-021/312 H01L-029/786 PN2 -JP3541026 B2 20040707 [JP3541026] (B2) Grant. Pat. With A from 2500000 on STG2-IC2 -(B2) G02F-001/1368 G09F-009/30 H01L-029/786 JP2001273366 20010910 [2001JP-0273366] AP -JP2001273366 20010910 [2001JP-0273366] PR -JP20636795 19950811 [1995JP-0206367] JP25404395 19950929 [1995JP-0254043] 2002-33 IIP -9 / 18 PLUSPAT - @QUESTEL-ORBIT - image PN -JP9152625 A 19970610 [JP09152625] STG -(A) Doc. Laid open to publ. Inspec. TI -(A) TRANSMISSION TYPE LIQUID CRYSTAL DISPLAY DEVICE AND ITS PRODUCTION PA -(A) SHARP KK

(A) SHIMADA NAOYUKI; KAJITANI MASARU; OKAMOTO MASAYA; KONDO

PA0 -

IN -

(A) SHARP CORP

NAOFUMI; KATAYAMA MIKIO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO; NAKADA YUKINOBU; NISHIKI HIROHIKO; SHIMADA YOSHIHIRO (A) G02F-001/136 PN2 - JP2933879 B2 19990816 [JP2933879] STG2- (B2) Grant. Pat. With A from 2500000 on **IC2** - (B2) G02F-001/136 **AP** - JP21177996 19960809 [1996JP-0211779] **PR** - JP20636795 19950811 [1995JP-0206367] JP21177996 19960809 [1996JP-0211779] JP25404395 19950929 [1995JP-0254043] 10 / 18 PLUSPAT - @QUESTEL-ORBIT - image PN - JP11119261 A 19990430 [JP11119261] (A) Doc. Laid open to publ. Inspec. TI - (A) LIQUID CRYSTAL DISPLAY DEVICE, ACTIVE MATRIX SUBSTRATE, AND PRODUCTION OF LIQUID CRYSTAL DISPLAY DEVICE PA -(A) SHARP KK PA0 -(A) SHARP CORP (A) SHIMADA NAOYUKI; KAJITANI MASARU; OKAMOTO MASAYA; KONDO NAOFUMI; KATAYAMA MIKIO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO; NAKADA YUKINOBU; NISHIKI HIROHIKO; SHIMADA YOSHIHIRO (A) G02F-001/1333 G02F-001/136 G09F-009/30 H01L-029/786 IC -JP22021998 19980101 [1998JP-0220219] JP20636795 19950811 [1995JP-0206367] JP25404395 19950929 [1995JP-0254043] AP -PR -11 / 18 PLUSPAT - @QUESTEL-ORBIT - image **PN** - JP11119262 A 19990430 [JP11119262] STG - (A) Doc. Laid open to publ. Inspec. TI - (A) LIOUID CRYSTAL DISPLAY DEVICE AND ACTIVE MATRIX SUBSTRATE PA - (A) SHARP KK PAO - (A) SHARP CORP IN -(A) SHIMADA YOSHIHIRO; KONDO NAOFUMI; KAJITANI MASARU; KATAYAMA MIKIO; NAKADA YUKINOBU; OKAMOTO MASAYA; SHIMADA NAOYUKI; NISHIKI HIROHIKO; SAKIHANA YOSHIKAZU; YAMAMOTO AKIHIRO (A) G02F-001/133 G02F-001/136 G09F-009/30 H01L-029/786 JP3253589 B2 20020204 [JP3253589] (B2) Grant. Pat. With A from 2500000 on (B2) G02F-001/133 G02F-001/1368 G09F-009/30 H01L-029/786 IC2 -

STG2-

AP -JP22022098 19960908 [1998JP-0220220] JP22022098 19960908 [1998JP-0220220] PR -JP20636795 19950811 [1995JP-0206367] JP25404395 19950929 [1995JP-0254043]

12 / 18 PLUSPAT - @QUESTEL-ORBIT

PN - KR269017 B1 20001016 [KR-269017]

STG -(B1) Examined pat. App. (2nd pub.) B5

TI -(B1) LIQUIDCRYSTALDISPLAYDEVICEANDACTIVEMATRIXSUBSTRATE

(B1) SHARP KK (JP) PA -

(B1) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO IN -MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)

(B1) G02F-001/136 IC -

AP - KR2000006651 20000212 [2000KR-0006651] **PR** - KR2000006651 20000212 [2000KR-0006651] JP20636795 19950811 [1995JP-0206367]

JP25404395 19950929 [1995JP-0254043] KR9633506 19960810 [1996KR-0033506] UP -2001-28 13 / 18 PLUSPAT - @QUESTEL-ORBIT PN - TW466373 B 20011201 [TW-466373] (B) Patent STG -(B) Transmission type liquid crystal display device and method for fabricating the same PA -(B) SHARP KK (JP) (B) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO IN -(JP); OKAMOTO MASAYA (JP); SHIMADA NAOYUKI (JP) IC -(B) G02F-001/1343 AP - TW86109346 19970702 [1997TW-0109346] PR - JP21177996 19960809 [1996JP-0211779] **UP** - 2002-28 1 / 1 LEGALI - ©EPO PN -TW466373 B 20011201 [TW-466373] AP -TW86109346 19970702 [1997TW-0109346] 20020322 TW/GD4A-A [+] ACTE-ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT **UP** - 2004-28 14 / 18 PLUSPAT - @QUESTEL-ORBIT - image PN - US6097452 A 20000801 [US6097452] STG - (A) United States patent TI - (A) Transmission type liquid crystal display having an organic interlayer elements film between pixel electrodes and switching PA -(A) SHARP KK (JP) PA0 -Sharp Kabushiki Kaishi, Osaka [JP] IN -(A) SHIMADA TAKAYUKI (JP); KAJITANI MASARU (JP); OKAMOTO MASAYA (JP); KONDO NAOFUMI (JP); KATAYAMA MIKIO (JP); SAKUHANA YOSHIKAZU (JP); YAMAMOTO AKIHIRO (JP); NAKATA YUKINOBU (JP); NISHIKI HIROHIKO (JP); SHIMADA YOSHINORI (JP) (A) G02F-001/1333 G02F-001/1343 G02F-001/136 IC AP -US11013498 19980706 [1998US-0110134] PR -US11013498 19980706 [1998US-0110134] JP20636795 19950811 [1995JP-0206367] JP25404395 19950929 [1995JP-0254043] US69563296 19960812 [1996US-0695632] **EC** - G02F-001/1362C G02F-001/1362H ICO - S02F-001/1333I PCL -ORIGINAL (O): 349038000; CROSS-REFERENCE (X): 349039000 349043000 349138000 DT -Corresponding document 2000-31 UP -15 / 18 PLUSPAT - @QUESTEL-ORBIT - image PN - US5953084 A 19990914 [US5953084] STG - (A) United States patent (A) Transmission type liquid crystal display device having capacitance ratio of 10% or less and charging rate difference of

0.6% or less

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PA -
        (A) SHARP KK (JP)
        Sharp Kabushiki Kaisha, Osaka [JP]
        (A) SHIMADA TAKAYUKI (JP); KAJITANI MASARU (JP); OKAMOTO MASAYA
        (JP); KONDO NAOFUMI (JP); KATAYAMA MIKIO (JP); SAKUHANA
        YOSHIKAZU (JP); YAMAMOTO AKIHIRO (JP); NAKATA YUKINOBU (JP);
        NISHIKI HIROHIKO (JP); SHIMADA YOSHINORI (JP)
        (A) G02F-001/1343 G02F-001/136
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AP - US11015198 19980706 [1998US-0110151]
PR - US11015198 19980706 [1998US-0110151]
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349042000
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16 / 18 PLUSPAT - @QUESTEL-ORBIT - image
PN - US6195138 B1 20010227 [US6195138]
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        (B1) U.S. Patent (no pre-grant pub.) after jan. 2, 2001
        (B1) Transmission type liquid crystal display having an organic
        interlayer elements film between pixel electrodes and switching
PA -
        (B1) SHARP KK (US)
        Sharp Kabushiki Kaisha, Osaka [JP]
        (B1) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO
        (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI
        HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP);
        YAMAMOTO AKIHIRO (JP)
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        US11013498 19980706 [1998US-0110134]
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        G02F-001/1362H
ICO -
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        ORIGINAL (O): 349042000; CROSS-REFERENCE (X): 345092000
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UP -
        2001-14
17 / 18 PLUSPAT - @QUESTEL-ORBIT - image
       US6052162 A 20000418 [US6052162]
STG -
        (A) United States patent
        (A) Transmission type liquid crystal display device with
        connecting electrode and pixel electrode connected via contact
        hole through interlayer insulating film and method for fabricating
PA -
        (A) SHARP KK (JP)
        Sharp Kabushiki Kaisha, Osaka [JP]
        (A) SHIMADA TAKAYUKI (JP); KAJITANI MASARU (JP); OKAMOTO MASAYA (JP); KONDO NAOFUMI (JP); KATAYAMA MIKIO (JP); SAKUHANA
        YOSHIKAZU (JP); YAMAMOTO AKIHIRO (JP); NAKATA YUKINOBU (JP);
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        US69563296 19960812 [1996US-0695632]
        JP20636795 19950811 [1995JP-0206367]
        JP25404395 19950929 [1995JP-0254043]
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PCL - ORIGINAL (O): 349038000; CROSS-REFERENCE (X): 349039000

EC - G02F-001/1362H **ICO** - S02F-001/1333I

2004-41

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349043000 349044000
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18 / 18 PLUSPAT - @QUESTEL-ORBIT - image
PN - US2001002857 A1 20010607 [US20010002857]
      (A1) Utility Patent Application published on or after January 2,
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PA -
        (B2) SHARP KK (JP)
PA0 -
        Sharp Kabushiki Kaisha, Osaka [JP]
IN -
        (A1) KONDO NAOFUMI (JP); KAJITANI MASARU (JP); KATAYAMA MIKIO
        (JP); NAKATA YUKINOBU (JP); OKAMOTO MASAYA (JP); NISHIKI
        HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP); SHIMADA TAKAYUKI (JP);
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       (A1) G02F-001/1343 G02F-001/136
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PN2 -
        US6433851 B2 20020813 [US6433851]
       (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001
STG2-
TI2 -
        (B2) Transmission type liquid crystal display having a transparent
        colorless organic interlayer insulating film between pixel
        electrodes and switching
PA2 -
        (B2) SHARP KK (JP)
        (B2) SHIMADA YOSHINORI (JP); KONDO NAOFUMI (JP); KAJITANI
IN2 -
        MASARU (JP); KATAYAMA MIKIO (JP); NAKATA YUKINOBU (JP); OKAMOTO
        MASAYA (JP); NISHIKI HIROHIKO (JP); SAKUHANA YOSHIKAZU (JP);
        SHIMADA TAKAYUKI (JP); YAMAMOTO AKIHIRO (JP)
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       US75747701 20010111 [2001US-0757477]
PR -
       US75747701 20010111 [2001US-0757477]
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       G02F-001/1362C
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PCL - ORIGINAL (O): 349138000; CROSS-REFERENCE (X): 349042000
DT - Corresponding document
UP -
       2001-24
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PN - US2001002857 A1 20010607 [US20010002857]US6433851 B2 20020813
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